

Title (en)
BEARING DEVICE

Title (de)
LAGERVORRICHTUNG

Title (fr)
DISPOSITIF DE PALIER

Publication
EP 2270348 A1 20110105 (EN)

Application
EP 09733346 A 20090326

Priority
• JP 2009056150 W 20090326
• JP 2008104767 A 20080414

Abstract (en)
A dust seal (20) is provided with a tubular fitting portion (20A), a bush end surface abutting portion (20B), a lip portion (20D) and a sealing projection (20E) integrally formed. The sealing projection (20E) is formed to project in an axially opposite direction to the lip portion (20D) from a radial inner section of the bush end surface abutting portion (20B) and abuts against a chamfered portion (14E) of a bush (14) in such a manner as to overlap the chamfered portion. Therefore, at the time of supplying lubricant such as grease between the bush (14) and a connecting pin (17), the sealing projection (20E) can prevent a part of the lubricant from entering between an end surface (14D) of the bush (14) and the bush end surface abutting portion (20B) of the dust seal (20) to maintain a sealed state therebetween. In consequence, the dust seal (20) can be stably held on the inner peripheral side of a boss member (12), preventing the pulling-out of the dust seal (20) by a lubricant agent supplying pressure.

IPC 8 full level
F16C 33/74 (2006.01)

CPC (source: EP US)
E02F 9/006 (2013.01 - EP US); **F16C 11/045** (2013.01 - EP US); **F16C 33/102** (2013.01 - EP US); **F16C 33/74** (2013.01 - EP US);
F16J 15/166 (2013.01 - EP US); **F16J 15/3232** (2013.01 - EP US); **F16J 15/3276** (2013.01 - EP US); **F16C 2240/40** (2013.01 - EP US);
F16C 2350/26 (2013.01 - EP US)

Cited by
EP2848831A3; US9581199B2; EP2913556A4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2270348 A1 20110105; EP 2270348 A4 20171025; CN 101999047 A 20110330; CN 101999047 B 20130605; JP 2009257376 A 20091105;
JP 5172444 B2 20130327; KR 101518528 B1 20150507; KR 20100135702 A 20101227; US 2011019949 A1 20110127;
US 8596870 B2 20131203; WO 2009128331 A1 20091022

DOCDB simple family (application)
EP 09733346 A 20090326; CN 200980112933 A 20090326; JP 2008104767 A 20080414; JP 2009056150 W 20090326;
KR 20107014416 A 20090326; US 86326009 A 20090326